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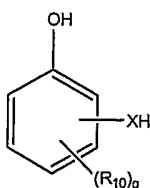
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(54) Title: PROCESS FOR THE SYNTHESIS OF POLYALKYLPHENOL ANTIOXIDANTS



(I)

(57) Abstract: Disclosed is a method for the synthesis of sterically hindered polymeric antioxidants based on phenol type antioxidant monomers. The method includes partially etherifying, polymerizing and thermally rearranging a phenol containing monomer represented by the following structural formula (I): to produce a sterically hindered polymeric macromolecular antioxidant. X, R₁₀ and q are as defined herein. The disclosed method is a simple, direct and economical process for the synthesis of sterically hindered polymeric macromolecular antioxidants.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C09K15/04 C08G61/00 C08G61/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C08G C09K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/087260 A (UNIVERSITY OF MASSACHUSETTS LOWELL; GOVERNMENT OF THE UNITED STATES, A) 23 October 2003 (2003-10-23) cited in the application claims; examples	1-20
A	EP 0 688 805 A (MITSUI TOATSU CHEMICALS, INCORPORATED) 27 December 1995 (1995-12-27) claims 1,6	1

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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- *Z* document member of the same patent family

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	OVERGAAG M ET AL: "Rearrangement of alkyl phenyl ethers over dealuminated HY zeolites under liquid-phase conditions" APPLIED CATALYSIS A: GENERAL, ELSEVIER SCIENCE, AMSTERDAM, NL, vol. 175, no. 1-2, 14 December 1998 (1998-12-14), pages 139-146, XP004271571 ISSN: 0926-860X page 144, right-hand column, paragraph 2 -----	1
A	US 4 447 657 A (FIRTH ET AL) 8 May 1984 (1984-05-08) column 1, line 66 - column 2, line 7; claims -----	1
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